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# COMPLETE SPECIFICATION.

## Improvements in Syringes.

GEORGIANNA FOSTER-MILES, Gentlewoman, of 1017, 16th Street, Washington D.C., U.S.A. do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

5 As heretofore made, bowl-syringes have generally been provided with nozzles secured to one of the flexible tubes, the bulb being in line with the tube, or in some instances connected with the nozzle, at an angle thereto; but in all constructions, it is necessary for the operator to support the instrument by means of one hand placed upon or adjacent to the inner end of the nozzle. As a result of this  
10 construction, the hands are apt to be attained when the injecting fluid is colored and to be injured, when the injecting fluid is caustic or acid or greatly heated, as is frequently the case, and it is practically impossible for obese persons to make use of the instrument without the aid of others.

To avoid these objections and otherwise improve the efficiency of the syringe,  
15 I construct the same as fully set forth hereinafter and as illustrated in the accompanying drawings, in which:

Fig. 1 is a view illustrating my improved syringe.

Fig. 2 a full sized view of the nozzle and handle.

Figs. 3, 4 & 5 are modifications.

20 The nozzle *a*, is constructed of any suitable form, preferably with a slight curve towards the lower or inner end and with the usual outlet opening at the outer end; with the said nozzle is connected the handle *b*, the lower or connecting portion *c*, of which extends outward from its junction with the handle preferably nearly at right angles, so as to support the handle at a suitable distance away from the  
25 nozzle, whereby when the syringe is in use, the handle occupies a position in front of the operator or user and may be readily grasped at a point above the lower end of the nozzle, preventing absolutely any contact of the injecting fluid with the hand that supports the nozzle, while the other hand may be employed for manipulating the bulb *d*. The said bulb may be in the line of the flexible pipe *f*,  
30 as shown in Fig. 1, or the handle *b*, may be hollow and the bulb may be upon the end of the same, so that the handle may be grasped in one hand and the bulb manipulated by the other at a point above the outlet end of the nozzle, as indicated in Fig. 4. In such case, the valve chest *e*, is preferably at the junction of the handle and the nozzle. In the construction shown in Fig. 5 the handle *b* is detachable  
35 from the nozzle *a*, being secured thereto by a stiff clamp *g*, and clamping screw *i*. This permits the handle to be connected to the nozzles of syringes not especially constructed in accordance with my invention.

For application to the ear, the handle will preferably project from the nozzle of suitable size more at right angles than in the construction illustrated in Fig. 1  
40 & 2, for instance in the position shown in dotted lines Fig. 5.

The nozzle *a* may be separable from the part *b* at *q*, Fig. 3; thus the said remaining part can be sold and adapted to receive nozzles of different sizes and shapes.

I do not limit myself to the precise construction and arrangement of parts shown  
45 and described.

Having now particularly described and ascertained the nature of the said invention, and in what manner the same is to be performed, I declare that what I claim is:—

1—The combination with the nozzle of a syringe, of a projecting handle,  
50 substantially as set forth.

[Price 8d.]

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*Foster-Miles' Improvements in Syringes.*

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2—A syringe provided with a nozzle and with a handle attached to the nozzle by any intermediate connection supporting the handle at a distance from the nozzle, substantially as described.

3—The combination with the nozzle of a syringe, of a projecting handle connected detachably to the nozzle, substantially as set forth. 5

4—The combination with the nozzle of a syringe, of a hollow handle extending outward and upward and supporting the compression bulb at its outer end, substantially as described.

Dated this 12th day of July 1892.

GEORGIANNA FOSTER-MILES, 10

By L. W., per F. B.

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[This Drawing is a reproduction of the Original on a reduced scale.]



